

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A system for exchanging data utilizing Remote Direct Memory Access comprising:

a Network File System component for generating a file request in response to a system call, the system call being invoked by an application;

an External Data Representation component for describing the format of said file request;

a Remote Procedure Call component for initiating said file request with a remotely located computer system; and

a unifying layer for communicating said Remote Procedure Call with one of a plurality of transport layer Remote Direct Memory Access implementations used to exchange data with said remotely located computer system, the unifying layer isolating the Network File System component, the application, the External Data Representation component and the Remote Procedure Call component from modifications to enable the plurality of transport layer Remote Direct Memory Access implementations, the unifying layer including,

a first component for converting said Remote Procedure Call to a Remote Direct Memory Access formatted message; and

a second component for communicating said Remote Direct Memory Access formatted message to a particular transport layer Remote Direct Memory Access implementation.

2. (Original) The system for exchanging data as recited in Claim 1, wherein one of said plurality of Remote Direct Memory Access implementations is the Virtual Interface Architecture.

3. (Cancelled)

4. (Currently Amended) The system for exchanging data as recited in Claim [[3]] 1 , further comprising a plurality of said second components for communicating said Remote Direct Memory Access formatted message to various transport layer Remote Direct Memory Access implementations.

5. (Original) The system for exchanging data as recited in Claim 4, wherein the Remote Direct Memory Access protocol is the default transport layer protocol for communicating said Remote Procedure Call.

6. (Currently Amended) A method for communicating data using Remote Direct Memory Access comprising:
generating a file request using the Network File System protocol;
formatting said file request using the External Data Representation protocol;
initiating a Remote Procedure Call for said file request;
formatting said Remote Procedure Call using a unifying layer for communicating with a plurality of transport layer Remote Direct Memory Access implementations; ~~and, wherein~~ said formatting said of Remote Procedure Call is performed without modifications to the Network File System protocol or Remote Procedure Call, the formatting includes,
converting the format of said Remote Procedure Call to a Remote Direct Memory Access formatted message; and
utilizing an Application Programming Interface to communicate said Remote Direct Memory Access formatted message to a particular transport layer Remote Direct Memory Access implementation; and
exchanging data using one of said Remote Direct Memory Access implementations ~~wherein~~ when said file request is performed.

7. (Original) The method for communicating data using Remote Direct Memory Access as recited in Claim 6, wherein one of said plurality of Remote Direct Memory Access implementations is the Virtual Interface Architecture.

8. (Cancelled)

9. (Currently Amended) The method for communicating data using Remote Direct Memory Access as recited in Claim [[8]] 6, wherein a plurality of said Application Programming Interfaces communicate said Remote Direct Memory Access formatted message to said plurality of transport layer Remote Direct Memory Access implementations.

10. (Original) The method for communicating data using Remote Direct Memory Access as recited in Claim 9, wherein said exchanging data comprises using the Remote Direct Memory Access protocol as the default transport layer protocol for communicating said Remote Procedure Call.

11. (Currently Amended) A computer system comprising:
a bus;
a memory unit coupled to said bus; and
a processor coupled to said bus, said processor for executing a method for communicating data using Remote Direct Memory Access comprising:
generating a file request using the Network File System protocol;
formatting said file request using the External Data Representation protocol;
initiating a Remote Procedure Call for said file request;
formatting said Remote Procedure Call using a unifying layer for communicating with a plurality of transport layer Remote Direct Memory Access implementations, wherein said formatting said of Remote Procedure Call is performed without modifications to the Network File System protocol or Remote Procedure Call, the formatting including,
converting the format of said Remote Procedure Call to a Remote Direct Memory Access formatted message; and
utilizing an Application Programming Interface to communicate said Remote Direct Memory Access formatted message to a particular transport layer Remote Direct Memory Access implementation; and
exchanging data using one of said Remote Direct Memory Access implementations wherein said file request is performed.

12. (original) The computer system as recited in Claim 11, wherein one of said plurality of Remote Direct Memory Access implementations is the Virtual Interface Architecture.

13. (Cancelled)

14. (Currently Amended) The computer system as recited in Claim [[13]] 11, wherein a plurality of said Application Programming Interfaces communicate said Remote Direct Memory Access formatted message to said plurality of transport layer Remote Direct Memory Access implementations.

15. (original) The computer system as recited in Claim 14, wherein said exchanging data comprises using the Remote Direct Memory Access protocol as the default transport layer protocol for communicating said Remote Procedure Call.

16. (Currently Amended) A computer-usable medium having computer-readable program code embodied therein for causing a computer system to perform a method for communicating data using Remote Direct Memory Access comprising:

- generating a file request using the Network File System protocol;
- formatting said file request using the External Data Representation protocol;
- initiating a Remote Procedure Call for said file request;
- formatting said Remote Procedure Call using a unifying layer for communicating with a plurality of transport layer Remote Direct Memory Access implementations, wherein said formatting said of Remote Procedure Call is performed without modifications to the Network File System protocol or Remote Procedure Call, the formatting including,
 - converting the format of said Remote Procedure Call to a Remote Direct Memory Access formatted message; and
 - utilizing an Application Programming Interface to communicate said Remote Direct Memory Access formatted message to a particular transport layer Remote Direct Memory Access implementation; and
- exchanging data using one of said Remote Direct Memory Access implementations wherein said file request is performed.

17. (original) The computer-usable medium as recited in Claim 16, wherein one of said plurality of Remote Direct Memory Access implementations is the Virtual Interface Architecture.

18. (cancelled)

19. (Currently Amended) The computer-usable medium as recited in Claim [[18]] 16, wherein a plurality of said Application Programming Interfaces communicate said Remote Direct Memory Access formatted message to said plurality of transport layer Remote Direct Memory Access implementations.

20. (original) The computer-usable medium as recited in Claim 19, wherein said exchanging data comprises using the Remote Direct Memory Access protocol as the default transport layer protocol for communicating said Remote Procedure Call.